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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/619,827	07/15/2003	Lee D. Tice	SYS-P-1130	7197
7590 06/16/2005			EXAMINER	
PATENT SERVICES GROUP			CHARIOUI, MOHAMED	
	INTERNATIONAL, INC.		ADTIBUT	DARCE AND OPEN
101 COLUMBI	A ROAD		ART UNIT	PAPER NUMBER
MORRISTOW	N, NJ 07962		2857	

DATE MAILED: 06/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	•			
	Application No.	Applicant(s)				
	10/619,827	TICE, LEE D.				
Office Action Summary	Examiner	Art Unit				
	Mohamed Charioui	2857				
The MAILING DATE of this communication a	ppears on the cover sheet wil	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a re 1.196(a). In ho event, however, may a re 2. Pyly within the statutory minimum of thirty 3. It is a poly and will expire SIX (6) MON' 4. It is a publication to become AB.	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04	<u>April 2005</u> .	•				
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
3) Since this application is in condition for allow	ance except for formal matte	ers, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 10-19,24-35 and 39-58 is/are pendi	ng in the application.					
4a) Of the above claim(s) is/are withdr	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>10-19,24-35 and 39-58</u> is/are reject	ed.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10)⊠ The drawing(s) filed on 26 July 2004 is/are: a	0)⊠ The drawing(s) filed on <u>26 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to th	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the I	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority document of: 2. Certified copies of the priority document of: 3. Copies of the certified copies of the priority document of the priority document of the certified copies of the cert	nts have been received. nts have been received in Ap iority documents have been	oplication No				
* See the attached detailed Office action for a lis	• • • • • • • • • • • • • • • • • • • •	eceived.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413) /Mail Date				
2) Notice of bransperson's Patent brawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 11/3/03		ormal Patent Application (PTO-152)				

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1. Applicant cancelled claims 1-9, 20-23 and 36-38.

DETAILED ACTION

Claim Objections

2. Claim 12 is objected to because of the following informalities: claim 12 recites the limitation "the amount of averaging" in page 2, line 16 of the amendment. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "removes less noise" in claim 13 is a relative term which renders the claim indefinite. The term " removes less noise" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is unclear how much noise is considered to be less noise.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10-19, 24-35 and 39-58 are rejected under 35 U.S.C. 102(b) as being anticipated by Tice (U.S. 6,229,439).

As per claims 10, 11 and 24, Tice teaches at least a first sensor generating an output representative of the sensed environmental condition, the output including noise that is not representative of the sensed environmental condition (see col. 1, line 65 to col. 2, line 15); a processor and executable instructions that process and average the sensor's output to remove at least some of noise and produce a processed signal where the degree of averaging is altered as a function of time in response to at least one of the output or the signal, and including instructions to evaluate the processed signal (see col. 2, line 45 to col. 3, line 6 and col. 11, lines 6-12).

As per claims 12, 13, 16 and 18, Tice further teaches that the amount of averaging has a minimum value (see col. 3, lines 1-5 and col. 4, lines 25-32).

As per claim 14, Tice further teaches that the degree of averaging increases over time when the output is not significantly changing (see col. 5, line 65 to col. 6, line 8).

As per claims 15 and 17, Tice further teaches that the degree of averaging is clamped at a maximum value (see col. 11, lines 13-43).

As per claim 19, Tice further teaches that the sensor is at least one of a gas sensor, a smoke sensor, a temperature sensor, a light sensor, a pressure sensor, a position sensor, or a humidity sensor (see col. 2, lines 20-26).

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As per claims 25, 32 and 33, Tice further teaches a display, coupled to the control circuitry, which displays information pertaining to the received signal (see col. 5, lines 47-55).

As per claims 26-29, Tice further teaches executable instructions to maintain the altered sample rate until the timer times out (see col. 10, line 49 to col. 11, line 13).

As per claims 30, 31, 34 and 35, Tice further teaches an ambient condition sensor coupled to the signal input (see col. 1, line 65 to col. 2, line 5).

As per claims 39-43, 45 and 46, Tice further teaches establish at least a second degree of averaging with the second degree less than the degree of averaging (see col. 11, lines 1-12).

As per claim 44, Tice further teaches that the second degree of averaging is maintained for a selected time interval before the degree of averaging is increased (se col. 11, lines 12-22).

As per claims 47-51, Tice further teaches instructions for sampling a noisy signal, instructions for establishing an average noise parameter for the signal (see col. 1, line 65 to col. 2, line 15 and col. 10, line 49 to col. 11, line 21); instructions for updating a parameter indicative of a number of signal samples to be used in averaging the sensor's output; instructions for forming the average of the sensor's output (see col. 1, lines 35-43); instructions for comparing the averaged sensor output value to a representation of the average noise parameter, and responsive thereto, including further instructions for altering a sample rate parameter and for altering the number of signal

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samples used averaging the sensor's output (see col. 5, lines 43-49 and col. 6, lines 57-63).

As per claim 52, Tice further teaches a display, coupled to the processor, which displays information pertaining to the received signal (see col. 5, lines 47-55).

As per claims 53-56, Tice further teaches executable instructions to maintain the altered sample rate until the timer times out (see col. 10, line 49 to col. 11, line 13).

As per claims 57 and 58, Tice further teaches the sensor comprises a sensor of a selected fluid (see col. 1, line 65 to col. 2, line 5).

Prior art

5. The prior art made record and not relied upon is considered pertinent to applicant's disclosure:

Poole ['940] discloses aluminum oxide moisture sensor and related method.

Contact information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohamed Charioui whose telephone number is (571) 272-2213. The examiner can normally be reached Monday through Friday, from 9 am to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S Hoff can be reached on (571) 272-2216. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Mohamed Charioui

6/3/05

MARC S. HOFF SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800